

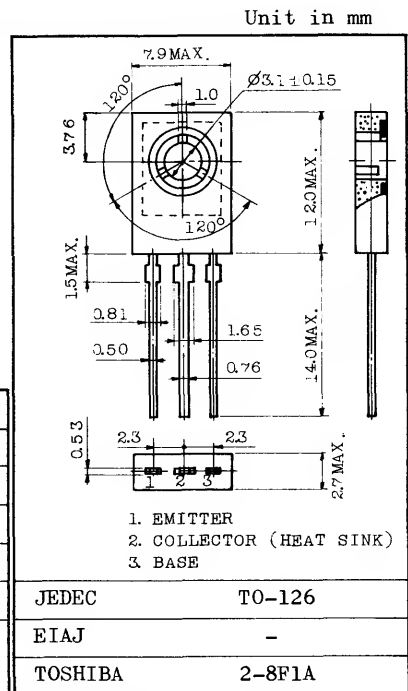
AUDIO FREQUENCY POWER AMPLIFIER APPLICATIONS.

FEATURES:

- Complementary to 2SA1184.
- Suitable for driver of 60 to 80 watts audio amplifier.
- High breakdown voltage.

MAXIMUM RATINGS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	RATING	UNIT	
Collector-Base Voltage	V_{CB0}	120	V	
Collector-Emitter Voltage	V_{CE0}	120	V	
Emitter-Base Voltage	V_{EB0}	5	V	
Collector Current	I_C	1	A	
Base Current	I_B	100	mA	
Collector Power Dissipation	P_C	$T_a=25^\circ\text{C}$	1	W
		$T_c=25^\circ\text{C}$	15	
Junction Temperature	T_j	150	$^\circ\text{C}$	
Storage Temperature Range	T_{stg}	-55~150	$^\circ\text{C}$	



Mounting Kit No. AC46C
Weight : 0.72g

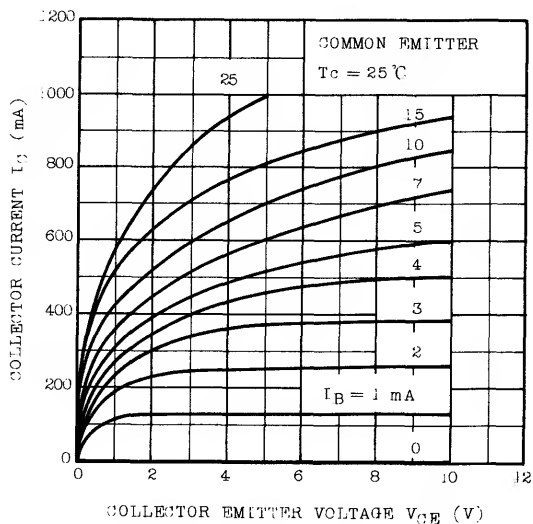
ELECTRICAL CHARACTERISTICS ($T_a=25^\circ\text{C}$)

CHARACTERISTIC	SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Collector Cut-off Current	I_{CB0}	$V_{CB}=120\text{V}$, $I_E=0$	-	-	100	nA
Emitter Cut-off Current	I_{EB0}	$V_{EB}=5\text{V}$, $I_C=0$	-	-	100	nA
Collector-Emitter Breakdown Voltage	$V_{(BR)CE0}$	$I_C=10\text{mA}$, $I_B=0$	120	-	-	V
Emitter-Base Breakdown Voltage	$V_{(BR)EB0}$	$I_E=1\text{mA}$, $I_C=0$	5	-	-	V
DC Current Gain	h_{FE} (Note)	$V_{CE}=5\text{V}$, $I_C=100\text{mA}$	80	-	240	
Collector-Emitter Saturation Voltage	$V_{CE(sat)}$	$I_C=500\text{mA}$, $I_B=50\text{mA}$	-	0.30	1.0	V
Base-Emitter Voltage	V_{BE}	$V_{CE}=5\text{V}$, $I_C=500\text{mA}$	-	0.78	1.0	V
Transition Frequency	f_T	$V_{CE}=5\text{V}$, $I_C=100\text{mA}$	-	120	-	MHz
Collector Output Capacitance	C_{ob}	$V_{CB}=10\text{V}$, $I_E=0$, $f=1\text{MHz}$	-	15	-	pF

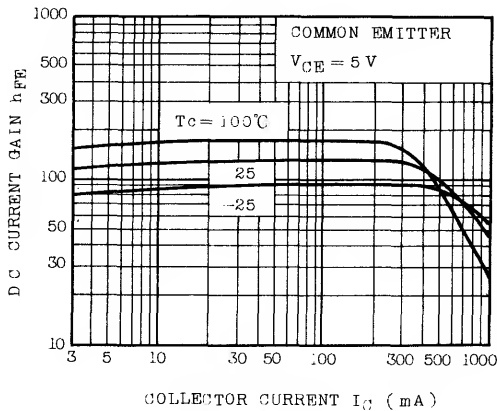
Note: h_{FE} Classification 0:80~160 Y:120~240

2SC2824

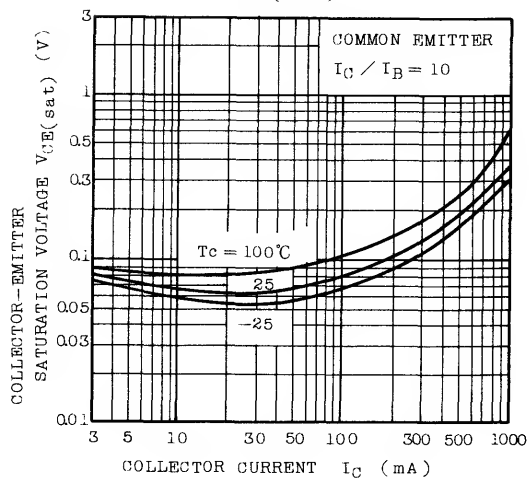
$I_C - V_{CE}$



$h_{FE} - I_C$



$V_{CE(sat)} - I_C$



$I_C - V_{BE}$

